



Course title	Parallel and Distributed Programming
Institute/Division	Faculty of Computer Science and Mathematics/ Department of Computer Science
Course code	F-1.PDP
Erasmus subject code*	11.3
Number of contact hours**	45 lecture hours (45h)
Course duration	1 semester (Fall)
ECTS credits	6
Course description (max 100 words)	The course focuses on concurrent, parallel and distributed programming. The students will be acknowledged with the low-level Posix thread programming, parallel programming with OpenMP and distributed programming with Message Passing Interface. The base programming language used is C, but students can use C++.
Literature	G. Coulouris et al., "Distributed Systems. Concepts and Design" (4th ed.), Addison Wesley, 2005A. S. Tanenbaum, "Distributed Systems. Principles and Paradigms" (2nd ed.), Prentice Hall 2002 Grama A. et al., "Introduction to Parallel Computing" (2nd ed.), Addison-Wesley, 2003
Course type/organization	Lectures and Laboratories
Assessment method	Attendance, laboratories reports, small projects, exam
Prerequisites	Advanced C or C++ programming language, Basic knowledge of Linux operating system.
Primary target group	3-rd – 4-th year computer science students
Contact person	Filip Kruzel, PhD filip.kruzel@pk.edu.pl
Remarks	

*please insert one of the following codes:

- 11.0 Mathematics, Informatics
- 11.1 Mathematics
- 11.2 Statistics
- 11.3 Informatics, Computer Science
- 11.4 Artificial Intelligence
- 11.5 Actuarial Science
- 11.9 Others Mathematics, Informatics

**1 lecture hour=45 minutes